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张道鹏

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主讲课程:

研究生: 无机功能材料, 配位化学

本科生: 无机化学(含实验)、有机化学(含实验)

科研情况: 课题组主要从事配合物功能分子材料方面的研究, 涉及学科主要为无机化学和有机化学, 研究领域和兴趣包括: 分子磁体的合理设计及合成, 复合功能光磁和手性分子磁性材料, 双稳态自旋交叉分子磁性材料, 金属有机骨架类功能材料等。现主持国家自然科学基金(面上项目) 1 项、中国博士后基金1 项、中国博士后基金特别资助1项、山东省自然科学基金(面上项目) 1 项、山东省高等学校科技计划项目1 项。研究成果获山东省高等学校优秀科研成果三等奖, 山东理工大学科技进步一等奖。首位发表SCI 收录科研论文30多篇, 影响因子总和达到70 以上, 单篇他引最高达100次以上。分子磁性材料方面单篇影响因子最高6.718, 有11 篇影响因子在4.0 以上, 发表在国际权威化学期刊Chem. Commun., Inorg. Chem., Cryst. Growth & Des., Dalton Trans., CrystEngComm 等。受邀为英国皇家学会会刊Dalton Trans. 撰写综述一篇, 申请受理发明专利2项。

近几年代表性论文:

1. D. P. Zhang(张道鹏), et al. Manganese(III) porphyrin-based magnetic materials. Dalton. Trans. (Invited review) Accepted. (IF: 4.097)
2. D. P. Zhang(张道鹏), et al. Synthesis, crystal structures and magnetic properties of mer-cyanideiron(III)-based 1D heterobimetallic cyanide-bridged chiral coordination polymers. Dalton. Trans. 2015, DOI: 10.1039/C4DT03274H. (IF: 4.097)
3. D. P. Zhang(张道鹏), et al. 1D to 3D Heterobimetallic complexes tuned by cyanide precursors: synthesis, crystal structures and magnetic properties. Inorg. Chem. 2014, 53, 3494. (IF: 4.794)
4. D. P. Zhang(张道鹏), et al. The supramolecular interaction mediated chiral 1D cyanide-bridged metamagnet: synthesis, crystal structures and magnetic properties. Dalton. Trans. 2014, 43, 945. (IF: 4.097)
5. D. P. Zhang(张道鹏), et al.. A new series of cyanide-bridged heterobimetallic FeIII-FeIII/MnIII/CuII one-dimensional complexes: synthesis, crystal structures, and magnetic properties. New J. Chem. 2014, 38, 5470. (IF: 3.159)
6. D. P. Zhang(张道鹏), et al.. Synthesis, crystal structures, and magnetic properties of three K[M(bpb)(CN)2]-based trinuclear sandwich-like heterobimetallic M(III)-Ni(II) (M = Fe, Cr, Co) complexes. J. Coord. Chem. 2014, 67, 1664. (IF: 2.224)

7. D. P. Zhang(张道鹏), et al.. Cyanide- and phenoxo-bridged heterobimetallic Fe(III)-Mn(III) complexes: synthesis, crystal structures and magnetic properties. *J. Chem. Sci.* 2014, 164, 1665.
8. D. P. Zhang(张道鹏), et al.. Three $K[M(\text{salen})(\text{CN})_2]$ -based trinuclear sandwich-like heterobimetallic $M(\text{III})\text{-Cu}(\text{II})$ ($M = \text{Fe}, \text{Cr}, \text{Co}$) complexes: synthesis, crystal structures, and magnetic properties. *Transition Metal Chem.* 2014, 39, 337.
9. D. P. Zhang(张道鹏), et al.. Cyanide- and phenoxo-bridged heterobimetallic Fe(III)-Mn(III) coordination polymer: synthesis, crystal structures and magnetic properties. *Bull. Korean Chem. Soc.* 2014, 35, 2684.
10. D. P. Zhang(张道鹏), et al. Water-controlled synthesis and single-crystal structural transformations of a cyanide-bridged $\text{W}(\text{IV})\text{-Ni}(\text{II})$ molecular wheel complex and 3D networks. *Chem. Commun.* 2013, 49, 9582. (IF: 6.718)
11. D. P. Zhang(张道鹏), et al.. Substituent group tuned tri- and binuclear porphyrin-based cyanide-bridged bimetallic complexes: synthesis, crystal structures and magnetic properties. *CrystEngComm.* 2013, 15, 2504. (IF: 4.01).
12. D. P. Zhang(张道鹏) et al.. Hydrogen-bond directed 1D and 3D cyanide-bridged heterometallic complexes: synthesis, crystal structures and magnetic properties. *J. Chem. Crystallogr.* 2013, 43, 151.
13. D. P. Zhang (张道鹏) et al.. Hydrogen-bond directed 2D cyanide-bridged coordination polymer assembled from a new pentacyanidecobalt(III) building block and a bicompartimental schiff-base manganese(III) Compound: Synthesis, Structures, and Magnetic Properties. *Inorg. Chem. Commun.* 2012, 26, 77. (IF: 2.062).
14. D. P. Zhang(张道鹏), et al.. $K[\text{Fe}(\text{5-Cl salen})(\text{CN})_2]$ as a new building block for heterobimetallic 1-D cyanide-bridged $\text{Fe}(\text{III})\text{-Mn}(\text{II})$ complexes: synthesis, crystal structures, and magnetic properties. *J. Coord. Chem.* 2012, 65, 2549. (IF: 2.224)
15. D. P. Zhang(张道鹏), et al.. Synthesis, crystal structures and magnetic properties of three pentanuclear complexes. *Inorg. Chim. Acta.* 2011, 377, 165. (IF: 2.206)
16. D. P. Zhang(张道鹏), et al. A series of trinuclear sandwich-like cyanide-bridged iron(III)-manganese(II) complexes: synthesis, crystal structures, and magnetic properties. *Transition Metal Chem.* 2011, 36, 539.
17. D. P. Zhang(张道鹏), et al.. Cyanide-bridged Trinuclear and Ethylenediamine-bridged One-dimensional Cobalt(III)-Manganese(II) Complexes: Synthesis, Crystal Structures and Magnetic Properties, *Bull. Korean Chem. Soc.* 2011, 32, 2544.
18. D. P. Zhang(张道鹏), et al.. Heterobimetallic Porphyrin-based Single -Chain Magnet Constructed from Manganese(III)-Porphyrin and trans-dicyanobis (acetylacetonato) ruthenate(III) Containing Co-crystallized bulk anions and cations. *Chem. Commun.* 2010, 46, 3550. (IF: 6.718)

19. D. P. Zhang(张道鹏), et al. Synthesis, Crystal and magnetic Properties of a New 2D Cyanide-Bridged Heterobimetallic Cr(I)-Mn (III) Complex. Inorg. Chem. Commun. 2010, 13, 895. (IF: 2.062)

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